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File 500305A2

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L5: Entry 4 of 4

File: EPAB

Aug 26, 1992

PUB-NO: EP000500305A2

DOCUMENT-IDENTIFIER: EP 500305 A2

TITLE: Method of measuring immunoreactant using electro-chemiluminescence.

PUBN-DATE: August 26, 1992

## INVENTOR-INFORMATION:

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## ABSTRACT:

A method of measuring an immunoreactant in a liquid sample, comprising the steps of: mixing the liquid sample with an excess of a complementary immunoreactant capable of specifically binding to said immunoreactant to allow an immunoreaction to take place, said complementary immunoreactant having been immobilized on insoluble carrier particles and labeled with an electrochemiluminescent substance that emit an electrochemiluminescent light by electrolytic oxidation in the presence of an activated oxygen, applying an electric voltage to a pair of electrodes between which the mixture obtained above is placed, in the presence of an activated oxygen to allow electrochemiluminescence to take place, and measuring the emission of the electrochemiluminescent light. The accuracy of measurement is high since the rate of change of emission of luminescent light depending on the

change of concentration of the immunoreactant in the liquid sample is high.